

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-implemented method for indicating, in a graphical user interface, a directory location of currently visible elements while scrolling through a tree structure, comprising:
 - displaying data using ~~[[a]]~~ the tree structure;
 - responsive to a user input to scroll through the data in the tree structure, determining whether a current ancestor hierarchy of an item is displayed in a designated section of the tree structure; and
 - displaying the current ancestor hierarchy for the item in the tree structure in response to determining whether the current ancestor hierarchy of ~~[[an]]~~ the item is displayed in a designated section.
2. (Currently Amended) The method of claim 1, wherein the step of displaying the current ancestor hierarchy for the item in the tree structure includes displaying an updated display ~~display of the current ancestor hierarchy is updated~~ as a new item is displayed in the designated section of the tree structure.
3. (Original) The method of claim 1, wherein scrolling through the data in the tree structure includes one of dragging a slider in a scroll bar, selecting an up/down button on a keyboard, selecting a page up/page down button on the keyboard, and clicking an up/down arrow on the scroll bar.
4. (Currently Amended) The method of claim 1, wherein the step of displaying the current ancestor hierarchy for the item in the tree structure includes ~~current ancestor hierarchy display is presented by~~ replacing an existing area of the graphical user interface.
5. (Currently Amended) The method of claim 1, wherein the step of displaying the current ancestor hierarchy for the item in the tree structure includes ~~current ancestor hierarchy display is presented by~~ adding a dedicated area ~~[[of]]~~ to the graphical user interface.
6. (Currently Amended) The method of claim 1, wherein the step of displaying the current ancestor hierarchy for the item in the tree structure includes ~~current ancestor hierarchy display is presented~~ displaying the current ancestor hierarchy in a manner consistent with the tree structure.

7. (Original) The method of claim 1, wherein the designated section of the tree structure includes one of a topmost and bottommost item displayed in the tree structure.
8. (Currently Amended) The method of claim 1, wherein the step of displaying the current ancestor hierarchy for the item in the tree structure includes displaying the current ancestor hierarchy ~~current ancestor hierarchy display is presented~~ in one location of ~~[[a]]~~ the graphical user interface.
9. (Currently Amended) The method of claim 1, wherein the step of displaying the current ancestor hierarchy for the item in the tree structure includes displaying the current ancestor hierarchy ~~current ancestor hierarchy display is presented~~ in multiple locations of ~~[[a]]~~ the graphical user interface.
10. (Currently Amended) The method of claim 1, wherein at least two of a plurality of items displayed in the tree structure are located in different parent directories.
11. (Currently Amended) The method of claim 10, wherein the step of displaying the current ancestor hierarchy for the item in the tree structure includes displaying a plurality of ~~current ancestor hierarchy display displays the current ancestor hierarchies for multiple~~ the plurality of items displayed in the tree structure.
12. (Currently Amended) A data processing system for indicating, in a graphical user interface, a directory location of currently visible elements while scrolling through a tree structure, comprising:
first displaying means for displaying data using ~~[[a]]~~ the tree structure;
responsive to a user input to scroll through the data in the tree structure, determining means for determining whether a current ancestor hierarchy of an item is displayed in a designated section of the tree structure; and
second displaying means for displaying the current ancestor hierarchy for the item in the tree structure in response to determining whether the current ancestor hierarchy of ~~[[an]]~~ the item is displayed in a designated section.
13. (Currently Amended) The data processing system of claim 12, wherein the second displaying means for displaying the current ancestor hierarchy for the item in the tree structure include updating means for displaying an updated display ~~display of the current ancestor hierarchy is updated~~ as a new item is displayed in the designated section of the tree structure.

14. (Original) The data processing system of claim 12, wherein scrolling through the data in the tree structure includes one of dragging a slider in a scroll bar, selecting an up/down button on a keyboard, selecting a page up/page down button on the keyboard, and clicking an up/down arrow on the scroll bar.

15. (Currently Amended) The data processing system of claim 12, wherein the second displaying means for displaying the current ancestor hierarchy for the item in the tree structure include replacing means for ~~current ancestor hierarchy display is presented by~~ replacing an existing area of the graphical user interface.

16. (Currently Amended) The data processing system of claim 12, wherein the second displaying means for displaying the current ancestor hierarchy for the item in the tree structure include adding means for ~~current ancestor hierarchy display is presented by~~ adding a dedicated area ~~[[of]]~~ to the graphical user interface.

17. (Currently Amended) The data processing system of claim 12, wherein the second displaying means for displaying the current ancestor hierarchy for the item in the tree structure include presenting means for presenting the current ancestor hierarchy ~~current ancestor hierarchy display is presented~~ in a manner consistent with the tree structure.

18. (Original) The data processing system of claim 12, wherein the designated section of the tree structure includes one of a topmost and bottommost item displayed in the tree structure.

19. (Currently Amended) The data processing system of claim 12, wherein the second displaying means for displaying the current ancestor hierarchy for the item in the tree structure include presenting means for presenting the current ancestor hierarchy ~~current ancestor hierarchy display is presented~~ in one location of ~~[[a]]~~ the graphical user interface.

20. (Currently Amended) The data processing system of claim 12, wherein the second displaying means for displaying the current ancestor hierarchy for the item in the tree structure include presenting means for presenting the current ancestor hierarchy ~~current ancestor hierarchy display is presented~~ in multiple locations of ~~[[a]]~~ the graphical user interface.

21. (Currently Amended) The data processing system of claim 12, wherein at least two of a plurality of items displayed in the tree structure are located in different parent directories.

22. (Currently Amended) The method of claim 21, wherein the second displaying means for displaying the current ancestor hierarchy for the item in the tree structure include presenting means for presenting a plurality of ~~current ancestor hierarchy display displays~~ the current ancestor hierarchies for multiple the plurality of items displayed in the tree structure.

23. (Currently Amended) A computer program product in a recordable-type ~~computer-readable~~ medium for indicating, in a graphical user interface, a directory location of currently visible elements while scrolling through a tree structure, comprising:

first instructions for displaying data using [[a]] the tree structure;

second instructions for determining whether a current ancestor hierarchy of an item is displayed in a designated section of the tree structure responsive to a user input to scroll through the data in the tree structure; and

third instructions for displaying the current ancestor hierarchy for the item in the tree structure in response to determining whether the current ancestor hierarchy of [[an]] the item is displayed in a designated section[[.]] , wherein the third instructions include sub-instructions for displaying an updated display as a new item is displayed in the designated section of the tree structure.

24. (Cancelled).

25. (Original) The computer program product of claim 23, wherein scrolling through the data in the tree structure includes one of dragging a slider in a scroll bar, selecting an up/down button on a keyboard, selecting a page up/page down button on the keyboard, and clicking an up/down arrow on the scroll bar.

26. (Currently Amended) The computer program product of claim 23, wherein the third instructions for displaying the current ancestor hierarchy for the item in the tree structure include sub-instructions for ~~current ancestor hierarchy display is presented by~~ replacing an existing area of the graphical user interface.

27. (Currently Amended) The computer program product of claim 23, wherein the third instructions for displaying the current ancestor hierarchy for the item in the tree structure include sub-instructions for ~~current ancestor hierarchy display is presented by~~ adding a dedicated area [[of]] to the graphical user interface.

28. (Currently Amended) The computer program product of claim 23, wherein the third instructions for displaying the current ancestor hierarchy for the item in the tree structure include sub-instructions for displaying the current ancestor hierarchy ~~current ancestor hierarchy display is presented~~ in a manner consistent with the tree structure.

29. (Original) The computer program product of claim 23, wherein the designated section of the tree structure includes one of a topmost and bottommost item displayed in the tree structure.

30. (Currently Amended) The computer program product of claim 23, wherein the third instructions for displaying the current ancestor hierarchy for the item in the tree structure include sub-instructions for displaying the current ancestor hierarchy ~~current ancestor hierarchy display is presented~~ in one location of [[a]] the graphical user interface.

31. (Currently Amended) The computer program product of claim 23, wherein the third instructions for displaying the current ancestor hierarchy for the item in the tree structure include sub-instructions for displaying the current ancestor hierarchy ~~current ancestor hierarchy display is presented~~ in multiple locations of [[a]] the graphical user interface.

32. (Currently Amended) The computer program product of claim 23, wherein at least two of a plurality of items displayed in the tree structure are located in different parent directories.

33. (Currently Amended) The computer program product of claim 32, wherein the third instructions for displaying the current ancestor hierarchy for the item in the tree structure include sub-instructions for displaying a plurality of ~~current ancestor hierarchy display displays the current ancestor hierarchies for multiple~~ the plurality of items in the tree structure.